

80-watt connection testing system (CV), ESD-compliant, incl. soldering and rework system



Metcal has led the industry for decades, starting with SmartHeat® technology, which detects thermal stress and immediately delivers energy to the solder joint when needed. The embedded self-regulating heater delivers the right amount of energy based on the requirements of the solder joint. This enables a fast, safe and repeatable process that requires no calibration. The thickness of the intermetallic compound is critical to the formation of a solder joint.

Connection Validation™ (CV) evaluates the quality of the solder joint by calculating the formation of the intermetallic connection and providing closed-loop feedback to the user. CV provides feedback to the user via the LED light ring integrated into the handpiece. It relieves the user of the risk associated with the variables of the soldering process and takes away the decision of success or failure of a good solder joint. CV complements the user's ability to assess the quality of a solder joint by introducing an objective method of

assessing solder joint quality. This systematic and objective approach provides repeatability and a measurable standard for the soldering process.

Specifications

- Input voltage: 100 - 240 VAC, grounded circuit, 50/60 Hz
- Rated power consumption: 125 W
- Output power: Variable, 80 W max.*
- Output frequency: 13.56 MHz
- Heating method: Induction, SmartHeat®
- Display: 2.8" color TFT touch display
- Display resolution: 320*240 RGB
- Display size: 2.8" diagonal
- Display active area: 43.20 x 57.60 mm
- Connections: 2 connections, single mode 80 watts. The power in dual mode is divided dynamically
- Interface -communication/firmware upgrade: Via USB port and corresponding software with compatible computer and cable.
- Power supply unit dimensions: W x D x H: 121 x 130 x 235 mm (4.8" x 3.3" x 9.3")
- Weight of the power supply unit: 3.35 kg (7.4 lb)
- Certification/marketing: cTUVus, CE
- Peak-to-ground potential: < 2 mV
- Peak-to-ground resistance: < 2 Ohm
- Ground detection: Permanent
- Surface resistance: 105 - 109 Ohm, ESD-safe
- Open circuit temperature stability: 1.1 °C (2 °F) in still air
- Peak temperature accuracy: Meets or exceeds IPC J-STD-001 standard
- Mains cable length: 183 cm, 18/3 SJT
- Warranty: 5 years
- Operating temperature: 10 - 40 °C (50 - 104 °F)
- Max. Housing temperature: 55 °C (131 °F)

Features and benefits

- SmartHeat® power-on-demand technology
- Patented Connection Validation™ IMC Formation technology
- 2.8-inch color touchscreen with informative graphics
- Communication port for process traceability data and firmware upgrades
- Accurate peak temperature display
- Integrated power meter and power graph
- Patented chip-in-cartridge technology
- Bidirectional closed-loop communication
- Stores and records cartridge attributes
- Provides traceability information
- Protects the power supply from non-compliant cartridges

- Backwards compatible with MX series power supplies
- Password protection

Product consists of

- CV-PS5200 Power supply unit
- CV-H1-AV Extended handpiece
- CV-W1AV Tip Saver Work Stand
- CV-CP1 Cartridge removal pad

Item no.	WL87198
Manufacturer	OKI
Manufacturer article no.	CV-5210
GPSR manufacturer data	OK International Ltd Eagle Close, Chandlers Ford GB-SO53 4NF Hampshire www.ok-international.com
Length	121 mm
Width	130 mm
Height	235 mm
Sales unit	1 piece
Content unit	1 piece
Colour	orange
Incl. battery	no
Frequency	13,56 MHz
Rated power	125 W
Voltage	100 – 240 V
Typical surface resistance (Rpp)	105 - 109 Ohm
ESD compliant	yes